IF YOUR CO ALARM SOUNDS

AWARNING

Actuation of your CO Alarm indicates the presence of carbon monoxide (CO) which can kill you. When your CO Alarm sounds, you must not ignore it!

IF THE ALARM SOUNDS:

- 1. Operate the Test/Silence button to silence the alarm. 2. Call your emergency services, fire department or 911. Write down the number of your local emergency service here:
- 3. Immediately move to fresh air-outdoors or by an open door or window Do a head count to check that all persons are accounted for. Do not re enter the premises or move away from the open door or window until the emergency services responder has arrived, the premises have been aired
- out, and your CO Alarm remains in its normal condition. 4. After following steps 1-3, if your CO Alarm reactivates within a 24-hour period, repeat steps 1-3 and call a qualified appliance technician to investigate for sources of CO from fuel-burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection have the equipment serviced immediately. Note any combustion equipment not inspected by the technician, and consult the manufacturers' instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not, been operating in an attached garage or adjacent to the residence. Write down the number of a qualified appliance technician here:

AWARNING!

Alarms have various limitations. See "General Limitations of CO Alarms' for details.

USING THE SILENCE FEATURE

AWARNING!

NEVER disconnect the power to your CO Alarm to silence the hornuse the silence feature. Disconnecting the CO Alarm rem protection! See previous page for details on responding to an alarm

The Silence Feature is intended to temporarily silence your CO Alarm's alarm horn while you correct the problem—it will not correct a CO problem. While the Alarm is silenced, it will continue to monitor the air for CO. When CO reaches alarm level, the unit will sound— repeating horn pattern: 4 beeps, a pause, 4 beeps, etc. Press and hold the Test/Silence button until the horn is silent. The Silence cycle will last approximately 4 minutes.

To silence an interconnected series of Alarms, you must press the Test/ Silence button on the initiating alarm (the unit with the flashing red light). If you press the Test/Silence on any other Alarm, it will only silence that unit,

not the whole interconnected series. NOTE: After the 4-minute silence cycle, the CO Alarm re-evaluates present CO levels and responds accordingly. If CO levels remain potentially dangerous-or start rising higher-the horn will start sounding again.

While the CO Alarm is silenced:

If the CO Alarm...is silent for only 4 minutes, then starts sounding loudly—4 beeps, then a pause, 4 beeps, then a pause. Red light (LED) continues flashing. This means...CO levels are still potentially dangerous.

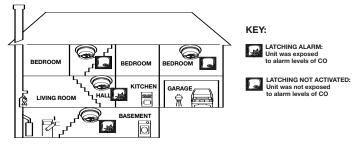
If the CO Alarm ... remains silent ...

This means...unit has returned to normal operation

SILENCING THE LOW BATTERY WARNING

This silence feature can temporarily quiet the low battery warning "chirp" for up to 8 hours if AC power is present. Press the Test/Silence button on the alarm cover. Once the low battery warning "chirp" silence feature is activated the unit continues to flash the red light once a minute for 8 hours. After 8 hours, the low battery "chirp" will resume. **Replace the battery as soon as** possible, to maintain protection in the event of a power outag

THE "LATCHING ALARM" INDICATOR:



The Latching Alarm Indicator is activated after a CO Alarm is exposed to alarm levels of carbon monoxide. After CO levels drop below alarm levels, the red LED will begin to flash once every 5 seconds. It will continue to flash or "latch" until you clear it by testing the alarm. This feature helps emergency responders, investigators, or service technicians

identify which unit(s) in your home were exposed to alarm levels of carbon monoxide. This can help investigators pinpoint the source of CO. Interconnected Alarms. Latching Alarm Indicator shows which Alarm(s) in the series were exposed to alarm levels of carbon monoxide.

The Latching Alarm Indicator stays ON until you clear it, so it can alert you to a CO Alarm that occurred while you were away from home, even though CO present in the air has dropped below alarm levels.

WEEKLY TESTING

Push and hold the Test/Silence button until you hear an acknowledge chirp and a loud alarm sounds — 4 beeps, pause, 4 beeps. This sequence should last for 10 seconds. If the Alarm ever fails to test properly, replace it immediately. If the Alarm is not working properly, refer to "Limited Warranty".

- AWARNING! If the Alarm ever fails to test properly, replace it immediately. Products under warranty may be returned to the manufacturer for replacement. See "Limited Warranty" at the end of this manual.
- DO NOT stand close to the Alarm when the horn is sounding Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding.
- NEVER use vehicle exhaust! Exhaust may cause permanent damage and voids your warranty.

REGULAR MAINTENANCE

- To keep the CO Alarm working properly Test it every week as described in "Weekly Testing."
- Vacuum the CO Alarm cover at least once a month, using the soft brush
- attachment. Never use water, cleaners, or solvents, since they may damage the unit. Test the Alarm again after vacuuming.

Replace the battery immediately when you see/hear the

"Low Battery Warning".

The Low (or Missing) Battery Warning (CO5120PDBN): The horn will "chirp" once a minute and the word "bat" will flash on and off on the display.

REPLACING THE BATTERY

Choosing a replacement battery: This unit requires one standard 9V alkaline battery. The following alkaline batteries are acceptable as replacements: Duracell #MN1604 or MX1604; Eveready "Energizer" 522, You can also use an Ultralife 9 volt lithium battery #U9VL for longer service life between battery changes. These replacement batteries are commonly available at local retail

IMPORTANT!

Use only the alkaline or lithium replacement batteries listed. The unit may not operate properly with other batteries. Never use rechargeable batteries since they may not provide a constant charge.

ACAUTION! DO NOT spray cleaning chemicals or insect sprays directly on or near the CO Alarm. DO NOT paint over the CO Alarm. Doing so may cause permanent damage.

IMPORTANT!

- Household cleaners, aerosol chemicals and other contaminants can affect the sensor. When using any of these materials near the CO Alarm, make sure the room is well ventilated.
- If your home is being fumigated, unplug the unit temporarily and put it where it will not be exposed to chemicals or fumes. When fumigation is complete and all traces of fumes clear, plug the unit back in and retest it.

WHAT YOU NEED TO KNOW ABOUT CO WHAT IS CO?

CO is an invisible, odorless, tasteless gas produced when fossil fuels do not burn completely, or are exposed to heat (usually fire). Electrical appliances typically do not produce CO.

These fuels include: Wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane.

Common appliances are often sources of CO. If they are not properly main-tained, are improperly ventilated, or malfunction, CO levels can rise quickly. CO is a real danger now that homes are more energy efficient. "Air-tight" nomes with added insulation, sealed windows, and other weatherproofing can "trap" CO inside.

5

SYMPTOMS OF CO POISONING

These symptoms are related to CO POISONING and should be discussed with LL household members. Mild Exposure: Slight headache, nausea, vomiting, fatigue ("flu-like" symptoms).

Medium Exposure: Throbbing headache, drowsiness, confusion, fast heart rate. Extreme Exposure: Convulsions, unconsciousness, heart and lung failure. Exposure to Carbon Monoxide can cause brain damage, death **IMPORTANT!** This CO Alarm measures exposure to CO over time. It alarms if CO levels

are extremely high in a short period of time, or if CO levels reach a certain ininimum over a long period of time. The CO Alarm generally sounds an alarm before the onset of symptoms in average, healthy adults.

Why is this important? Because you need to be warned of a potential CO exposure, victims may be aware that they are not feeling well, but become disoriented and can no longer react well enough to exit the building or get help. Also, young children and pets may be the first affected. The average healthy adult might not feel any symptoms when the CO Alarm sounds. However, people with cardiac or respiratory problems, infants, unborn babies egnant mothers, or elderly people can be more quickly and severely affected CO. If you experience even mild symptoms of CO poisoning, consult your doctor immediately!

FINDING THE SOURCE OF CO AFTER AN ALARM

Carbon monoxide is an odorless, invisible gas, which often makes it difficult to locate the source of CO after an alarm. These are a few of the factors that can

- make it difficult to locate sources of CO: House well ventilated before the investigator arrives.
- Problem caused by "backdrafting."

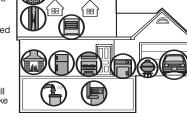
• Transient CO problem caused by special circumstances Because CO may dissipate by the time an investigator arrives, it may be difficult to locate the source of CO. BRK Brands, Inc. shall not be obligated to pay for any carbon monoxide investigation or service call

POTENTIAL SOURCES OF CO IN THE HOME

Fuel-burning appliances like: portable heater, gas or wood ning fireplace, gas kitchen range

or cooktop, gas clothes dryer. Damaged or insufficient venting: corroded or disconnected water heater vent pipe, leaking chimney pipe or flue, or cracked heat exchanger, blocked or clogged chimney opening. Improper use of appliance/ device: operating a barbecue grill or vehicle in an enclosed area (like

a garage or screened porch).



Transient CO Problems: "transient" or on-again-off-again CO problems can be caused by outdoor conditions and other special circumstances. The following conditions can result in transient CO situations:

- 1. Excessive spillage or reverse venting of fuel appliances caused by outdoor conditions such as:
- Wind direction and/or velocity, including high, gusty winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles).
- Negative pressure differential resulting from the use of exhaust fans. • Several appliances running at the same time competing for limited fresh air.
- Vent pipe connections vibrating loose from clothes dryers, furnaces, or water heaters.
- Obstructions in or unconventional vent pipe designs which can amplify the above situations.
- 2. Extended operation of unvented fuel burning devices (range, oven, fireplace). 3. Temperature inversions, which can trap exhaust close to the ground.

4. Car idling in an open or closed attached garage, or near a home.

These conditions are dangerous because they can trap exhaust in your home. Since these conditions can come and go, they are also hard to recreate during a CO investigation.

To help prevent CO problems and reduce the risk of CO poisoning:

healthy adults.

HOW CAN I PROTECT MY FAMILY?

 Clean chimneys and flues yearly. Keep them free of debris, leaves, and nests for proper air flow. Also, have a professional check for rust and corrosion, cracks, or separations. These conditions can prevent proper air movement and cause backdrafting. Never "cap" or cover a chimney in any way that would block air flow.

A CO Alarm is an excellent means of protection. It monitors the air and sounds

a loud alarm before carbon monoxide levels become threatening for average

A CO Alarm is not a substitute for proper maintenance of home appliance

- Test and maintain all fuel-burning equipment annually. Many local gas or oil companies and HVAC companies offer appliance inspections for a nominal fee.
- Make regular visual inspections of all fuel-burning appliances. Check
 appliances for excessive rust and scaling. Also check the flame on the ourner and pilot lights. The flame should be blue. A yellow flame means fuel is not being burned completely and CO may be present. Keep the blower door on the furnace closed. Use vents or fans when they are available on all fuel-burning appliances. Make sure appliances are vented o the outside. Do not use grills or barbecue indoors, or in garages or on
- screen porches. • Check for exhaust backflow from CO sources. Check the draft hood on an operating furnace for a backdraft. Look for cracks on furnace heat exchangers.
- · Check the house or garage on the other side of shared wall
- Keep windows and doors open slightly. If you suspect that CO is escaping into your home, open a window or a door. Opening windows and doors can significantly decrease CO levels.

UNDERWRITERS LABORATORIES INC. UL2034 WHAT LEVELS OF CO CAUSE AN ALARM?

Underwriters Laboratories Inc. Standard UL2034 requires residential CO Alarms to sound when exposed to levels of CO and exposure times as described below. They are measured in parts per million (ppm) of CO over ime (in minutes).

- UL2034 Required Alarm Points*:
- If the Alarm is exposed to 400 ppm of CO, IT MUST ALARM BETWEEN 4 and 15 MINUTES If the Alarm is exposed to 150 ppm of CO, IT MUST ALARM BETWEEN 10 and 50 MINUTES.
- If the Alarm is exposed to 70 ppm of CO, IT MUST ALARM BETWEEN 60 and 240 MINUTES.

* Approximately 10% COHb exposure at levels of 10% to 95% Relative Humidity (RH).

The unit is designed not to alarm when exposed to a constant level of 30 ppm for 30 days.

IMPORTANT!

- CO Alarms are designed to alarm before there is an immediate life threat. ince you cannot see or smell CO, never assume it's not present • An exposure to 100 ppm of CO for 20 minutes may not affect average healthy adults, but after 4 hours the same level may cause heada • An exposure to 400 ppm of CO may cause headaches in average
- healthy adults after 35 minutes, but can cause death after 2 hours.

Standards: Underwriters Laboratories Inc. Single and Multiple Station carbon nonoxide alarms UL2034. According to Underwriters Laboratories Inc. UL2034. Section 1-1.2: "Carbor monoxide alarms covered by these requirements are intended to respond to the presence of carbon monoxide from sources such as, but not limited to exhaust from internal-combustion engines, abnormal operation of fuel-fired appliances, and fireplaces. CO Alarms are intended to alarm at carbon monoxide levels below those that could cause a loss of ability to react to the langers of Carbon Monoxide exposure." This CO Alarm monitors the air at he Alarm, and is designed to alarm before CO levels become life threatening.

This allows you precious time to leave the house and correct the problem his is only possible if Alarms are located, installed, and maintained as described in this manual. Gas Detection at Typical Temperature and Humidity Ranges: The CO Alar

is not formulated to detect CO levels below 30 ppm typically. UL tested for false alarm resistance to Methane (500 ppm), Butane (300 ppm), Heptane (500 ppm), Ethyl Acetate (200 ppm), Isopropyl Alcohol (200 ppm) and Carbon Dioxide (5000 ppm). Values measure gas and vapor concentrations in parts per million. Audible Alarm: 85 dB minimum at 10 feet (3 meters).

CO Alarms may not be heard. The Alarm horn loudness meets or exceed

current UL standards of 85 dB at 10 feet (3 meters). However, if the CO Alarm

is installed outside the bedroom, it may not wake up a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. This

is especially true if the door is closed or only partly open. Even persons who

osed doors. Noise from traffic, stereo, radio, television, air conditioner, o

This CO Alarm is not intended for people who are hearing impaired

are awake may not hear the alarm horn if the sound is blocked by distance o

other appliances may also prevent alert persons from hearing the alarm horn

CO Alarms are not a substitute for a smoke alarm. Although fire is a source

CO Alarms are not a substitute for life insurance. Though these CO Alarms

warn against increasing CO levels, BRK Brands, Inc. does not warrant or imply in any way that they will protect lives from CO poisoning. Homeowners and

CO Alarms have a limited life. Although the CO Alarm and all of its parts have

passed many stringent tests and are designed to be as reliable as possible any of these parts could fail at any time. Therefore, you must test your CO

CO Alarms are not foolproof. Like all other electronic devices, CO Alarms

have limitations. They can only detect CO that reaches their sensors. They may not give early warning to rising CO levels if the CO is coming from a remote part of the home, away from the CO Alarm.

The following guide can help you identify a potential problem with the installation or operation of your CO Alarm. **NOTE: It is not meant to be**

an all-inclusive list of all CO Alarm conditions. If you are experiencing a

condition not covered in the next several pages, please contact Consumer

Check the AC power supply. Make sure the power connector is securely attached to the Alarm. Make

sure a fresh 9V battery is installed to power the

Jnit is operating on DC battery back-up. Check the

Replace the 9V battery in the battery back-up. Disconnect AC power before changing the battery.

Make sure a fresh 9V battery is installed. If unit still isn't functioning- REPLACE IT. Units under warranty

replacement. See "Limited Warranty" for details.

Refer to "If Your CO Alarm Sounds" for details on

EVACUATE your home immediately and call 911.

low to respond to an alarm. If anyone is feeling ill.

Relocate your Alarm. If frequent alarms continue, have

home rechecked for potential CO problems. You may be experiencing an intermittent CO problem.

Month/Year

Printed in Mexico M08-0002-002 Q 04/07

should be returned to manufacturer for

ou should

attery back-up.

C power supply.

Replacement date is five years after installation

NOTE: End of Life Signal — Once the unit reaches the end of its lifecvcle.

the MALFUNCTION SIGNAL will sound once a minute to indicate the need to immediately replace the Alarm.

of carbon monoxide, this CO Alarm does not sense smoke or fire. This CO Alarm senses CO that may be escaping unnoticed from malfunctioning

furnaces, appliances, or other sources. Early warning of fire requires the

stallation of smoke alarms.

larm weekly.

Affairs.

enters must still insure their lives.

GENERAL LIMITATIONS OF CO ALARMS

This CO Alarm is intended for residential use. It is not intended for use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for carbon monoxide detectors must be met. CO alarms may not waken all individuals. If children or others do not readily vaken to the sound of the CO alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to assist them in the event of an emergency.

CO Alarms will not work without power. This CO Alarm requires a continuous supply of AC power, and a fresh, correctly installed 9V battery to power the battery back-up. The battery back-up is for emergency use only! CO Alarms for Solar or Wind Energy users and battery backup powe

systems: AC powered CO Alarms should only be operated with true or pure sine wave inverters. Operating this CO Alarm with most battery-powered UPS (uninterruptible power supply) products or square wave or "quasi sine wave nverters will damage the Alarm. If you are not sure about your inverter or UPS type, please consult with the manufacturer to verify. This CO Alarm will not sense carbon monoxide that does not reach the

sensor. This CO Alarm will only sense CO at the sensor. CO may be present in other areas. Doors or other obstructions may affect the rate at which CO reaches the CO Alarm. For this reason, if bedroom doors are usually closed at night, we recommend you install a CO Alarm in each bedroom and in the nallway between them. CO Alarms may not sense CO on another level of the home. For example

a CO Alarm on the second level, near the bedrooms, may not sense CO in the basement. For this reason, one CO Alarm may not give adequate warning. Complete coverage is recommended. Place CO Alarms on each level of the

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where

power first may result in serious electrical shock, injury or death

Red light is OFF. Unit will not alarm when you press

Red light flashes once a minute (horn is silent). (CO5120PDBN display reads "bat").

Once a minute, the red light flashes and the horn "chirps". (CO5120PDBN display flashes "bat").

Once a minute, the alarm sounds 3 quick "chirps",

and the red light flashes quickly three times.

CO Alarm goes back into alarm 4 minutes after

CO Alarm sounds frequently even though no high

levels of CO are revealed in an investigation

(CO5120PDBN display reads "Err").

you press the Test/Silence button.

How to Obtain Warranty Service

with respect to battery

Date Purchased

Date Installed:

the CO Alarm is installed BEFORE removing it from the mounting bracket or checking any electrical connections! Failure to turn off the

ADANGER!

he Test/Silence button.

TROUBLESHOOTING GUIDE

If the Alarm.

Unit may not be receiving any power

Alarm is not receiving AC powe

he unit needs to be replaced.

CO levels are still potentially dangerous.

The CO Alarm may be improperly located.

LIMITED WARRANTY

period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty. This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. BRK dealers, service centers, or retail stores selling BRK

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than BRK or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

BRK shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable

urisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 AM - 5:00 PM Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling. For Warranty Service return to: BRK Brands, Inc., 25 Spur Drive, El Paso, TX 79906

Battery: BRK Brands, Inc. make no warranty, express or implied, written or oral, including that of merchantability or fitness for any particular purpose

law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states, provinces or

BRK Brands, Inc., ("BRK") the maker of First Alert[®] brand products warrants that for a period of five years from the date of purchase, this product will be free from defects in material and workmanship. BRK, at its option, will repair or replace this product or any component of the product found to be defective during the warranty

Refer to "Where to Install CO Alarms."

MALFUNCTION SIGNAL. Based on its Self Test

diagnostics, the unit has detected a malfunction

Low battery warning.

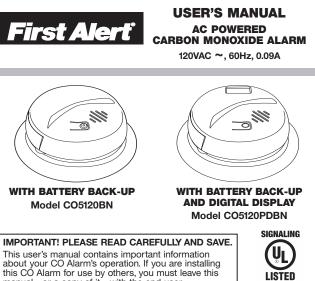
roducts do not have the right to alter, modify or any way change the terms and conditions of this warranty.

For your records, please record:

First Alert[®] is a registered trademark of the First Alert Trust.

Where Purchased:

Month/Yea



manual-or a copy of it-with the end user. M08-0002-002 Q 04/07 Printed in Mexico

INTRODUCTION

Thank you for choosing BRK Brands. Inc. for your Carbon Monoxide Alarm designed to provide you with early warning of carbon monoxide Alarm Kev features include:

Models

CO5120PDBN

Intelligent Sensing Technology is designed to help reduce unwanted or nuisance alarms Single Button Test/Silence eliminates confusion. Depending on what mode the alarm is in, pushing the button provides different functions such as testing

the alarm, silencing the alarm or low-battery signal, re-testing the alarm when n silence and clearing the Latching feature. Latching Alarm Indicator easily identifies initiating alarm even after the alarm condition has subsided.

Smart Interconnect interconnects with most First Alert® and BRK branded smoke, CO and heat alarms. When interconnected with alarming smoke alarms, unit will sound smoke horn pattern.

Dust Cover is included to keep the alarm clean during construction. Easy Installation/Maintenance features include a large opening in the mounting bracket for easy access to wiring. A battery pull tab keeps the battery fresh until the home is occupied. A Side Load Battery Drawer allows for easy battery replacement without removing the alarm from the ceiling or wall.

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umer Affairs: (800) 323-9005 www.brkelectronics.com • www.firstalert.com

BASIC SAFETY INFORMATION

IMPORTANT!

· Dangers, Warnings, and Cautions alert you to important operating instructions or to potentially hazardous situations

- Pay special attention to these items • THIS IS NOT A SMOKE ALARM! This CO Alarm is designed to detect carbon monoxide from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gas.
- This CO Alarm is approved for use in single-family residences. It is NOT designed for marine or RV use.

ACAUTION!

· This CO Alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other AWARNING!

• This unit does not work without power. If the AC power fails, the battery back-up will power the alarm for at least 7 days provided the 9V battery is fresh and correctly installed.

• The Silence Feature is for your convenience only and will not correct a CO problem. Always check your home for a potential problem after any alarm. Failure to do so can result in injury or death

• This CO Alarm should receive continuous 120VAC, 60 Hz, pure sine wave electrical power. (The battery is meant for emergency back-up only). Do not use in an extension cord or outlet controlled by a dimmer or switch. In order for the emergency battery back-up to work, a working (fresh) battery must be properly installed. • NEVER ignore any alarm. See "If Your CO Alarm Sounds" for more

information on how to respond to an alarm. Failure to respond can result in injury or death. • Test this Carbon Monoxide Alarm once a week. If it ever fails to

test correctly, have it replaced immediately! If the CO Alarm is not working properly, it cannot alert you to a problem. This product is intended for use in ordinary indoor locations of

family living units. It is not designed to measure CO levels in compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards. Individuals with medical conditions that may make them more sensitive to carbon monoxide may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm. For additional information on carbon monoxide and your medical condition contact your physician

HOW YOUR CO ALARM WORKS

The Cover Of Your CO Alarm

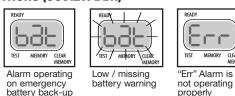
Ó

5	1. Test/Silence Button Scroll Button (CO5120PDBN)
3	2. POWER/ALARM Light (RED)
	3. Air Vents
	 (Behind the Cover) Alarm Horn: 85 dB audible alarm for test, alarm, and unit malfunction warning.
	5. Digital Display (CO5120PDBN)

UNDERSTANDING THE LIGHT AND HORN PATTERNS (CO5120BN)

Condition	LED (Red Light)	Horn
POWER UP	LED flashes on once, then shines continuously	Horn "chirps" once.
DURING TESTING	LED flashes once every second during the test cycle	Horn pattern: 4 beeps, pause, 4 beeps, pause
LOW OR MISSING BATTERY	LED flashes once a minute	Horn "chirps" once a minute
MISSING OR DEAD BATTERY (DC back- up disabled	LED is OFF	Horn is silent
WARNING: When the the CO Alarm cannot	AC power is Off, if the battery is d work.	ead or missing,
ALARM CONDITION Single CO Alarm (not interconnected)	LED flashes once every second	Horn pattern: 4 beeps, pause, 4 beeps, pause, repeating
ALARM CONDITION Interconnected Series of CO Alarms	LED flashes rapidly on the units that triggered the alarm. LEDs on the other Alarms in the series will not flash	Horn pattern: 4 beeps, pause, repeating on all CO Alarms
IN SILENCE MODE	LED flashes once every second on initiating Alarm	Horn stays quiet for 4 minutes
"LATCHING" ALARM INDICATOR	LED Flashes once every 5 seconds	Horn stays quiet
MALFUNCTION	LED flashes 3 times synchronized with 3 rapid chirps	Horn sounds 3 rapid chirps (chirp-chirp-chir every minute

HOW YOUR CO ALARM WORKS, Continued **DISPLAY CONDITIONS (CO5120PDBN)**



What you see and hear if CO is detected:

HORN: Silent **DISPLAY:** Shows CO levels detected in ppm (CO5120PDBN) POWER/ALARM LIGHT:

MEMORY CLEAR MEMORY

PRE-ALARM LEVELS :

Alarm operating

on AC power

ALARM LEVELS OF CO ARE HORN: Sounds loudly - 4 beeps,

This sequence repeats for as

detected in ppm (CO5120PDBN)

long as the unit is in alarm'

DISPLAY: Shows CO levels

POWER/ALARM LIGHT:

*Note: If unit goes into alarm

under battery back-up power, the regular 4 beeps-brief pause

cycle will repeat for four minutes.

After four minutes, the pause will

Flashes rapidly

increase to 1 minute.

pause, 4 beeps, pause.

evels drop below alarm levels, the unit will remain silent and return to normal operation. If CO present still indicates a potentially dangerous situation, the horn will sound again.

Flashes rapidly

4 minutes*

IF THE CO LEVELS RETURN TO NORMAL

IF YOU SILENCE THE ALARM:

HORN: Silent for about

DISPLAY: Shows CO levels

POWER/ALARM LIGHT:

*Note: After 4 minutes, if CO

detected in ppm (CO5120PDBN)

HORN: Silent DISPLAY: Dash lit by "READY" (CO5120PDBN) POWER/ALARM LIGHT: Shines continuous

SMART INTERCONNECT FEATURE

This CO Alarm includes "Smart Interconnect" which enables the Alarm to be interconnected with other BRK Smoke and CO Alarms. When interconnected to Smoke Alarms that go into alarm, this CO Alarm will sound the smoke horn

USING THE PEAK CO MEMORY (CO5120PDBN) The CO Memory Feature lets you check the highest level of CO recorded during an alarm.

To check CO Memory:

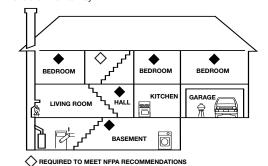
- 1. Press and release the Test/Silence/Scroll button until the dash scrolls to "MEMORY".
- 2. Press and hold Test/Silence/Scroll button to display Memory CO level To clear CO Memory:
- 1. Press and release the Test/Silence/Scroll button until the dash scrolls to "CLEAR MEMORY." 2. Press and hold the Test/Silence/Scroll button until the display shows "CLr."

NOTE: The highest CO level will be saved, even after a power interruption, until you clear it. DO NOT clear the CO Memory reading if you plan to call someone to investigate a CO problem! Clear the CO Memory reading only after the investigator has checked your home.

INSTALLATION

WHERE TO INSTALL CO ALARMS

The National Fire Protection Association (NFPA) recommends that a CO Alarm should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional CO Alarms in each separate bedroom, and on every level of your home. If your bedroom hallway is longer than 40 feet (12 meters), install a CO Alarm at BOTH ends of the hallway.



In a Single-level Home:

 Install at least one CO Alarm near or within each separate sleeping area • For added protection, install an additional CO Alarm at least 20 feet (6 meters), away from the furnace or fuel burning heat source.

SUGGESTED AREAS FOR INSTALLING ADDITIONAL CO ALARMS

- In a Multi-level Home_(same as above plus): • Install at least one CO Alarm near or within each separate sleeping area. • For added protection, install at least one CO Alarm on each level of the
- home. If you have a basement, install that CO Alarm at the top of the basement stairs. • For added protection, install an additional CO Alarm at least 20 feet (6 meters) away from the furnace or fuel burning heat source.

WHERE CO ALARMS SHOULD NOT BE INSTALLED

- DO NOT locate this CO Alarm: In garages, kitchens, furnace rooms, or in any extremely dusty, dirty
- or greasy areas. Where combustion particles are produced. Combustion particles form when something burns. Areas to avoid include poorly ventilated kitcher garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater, space heater) if possible. In areas where a 20-foot (6 meter) distance is not possible — in modular, mobile, or smaller homes, for example — it is recommended the CO Alarm be placed as far from these fuel-burning sources as possible. The placement recommendations are intended to keep these Alarms at a reasonable distance from a fuel-burning source, and thus reduce "unwanted" alarms. Unwanted alarms can occur if a CO Alarm is placed directly next to a fuel-burning source. Ventilate these areas as much as possible
- Within 5 feet (1.5 meter) of any cooking appliance.
- In extremely humid areas. This Alarm should be at least 10 feet (3 meter) from a bath or shower, sauna, humidifier, vaporizer, dishwasher, laundry room, utility room or other source of high humidity. In areas where temperature is colder than 40° F (4° C) or hotter than 100° F
- (38° C). These areas include non-airconditioned crawl spaces, unfinished attics, uninsulated or poorly insulated ceilings, porches, and garages.
- In turbulent air, like near ceiling fans, heat vents, air conditioners, fresh air returns, or open windows. Blowing air may prevent CO from reaching the sensors. In direct sunlight.

AWARNING!

- This CO Alarm is designed for use inside a single-family home or apartment. It is not meant to be used in common lobbies, hallways, or basements of multi-family buildings unless working CO Alarms are also installed in each family living unit. CO Alarms in common areas may not be heard from inside individual family living units.
- · This CO Alarm alone is not a suitable substitute for complete detection systems in places which house many people, like hotels or dormitories, unless a CO Alarm is also placed in each unit.
- DO NOT use this CO Alarm in warehouses, industrial or commercia buildings, special-purpose non-residential buildings, RVs, boats, or airplanes. This CO Alarm is specifically designed for residential ise, and may not provide adequate protection in non-residential

INSTALLATION, continued

BEFORE YOU BEGIN INSTALLATION

his unit is designed to be mounted on any standard wiring junction box u Alarms" and "Where Not To Install CO Alarms" before you begin installation. f a junction box is not already in place, install one using standard #12 or #14 uge copper wire

AWARNING!

A DANGER!

To install this unit:

AWARNING!

Tighten the screws.

power connector will ca non-functioning Alarm.

STAND ALONE ALARM ONLY

in the junction box.

interconnect only.

wire on the power connecto

black) in the junction box

INTERCONNECTED ALARMS ONLY:

usually white) in the junction box

the junction box.

Tools you will need: Standard Flathead screwdriver

n serious electrical shock, injury or death.

- This Alarm must have AC or battery power to operate. If the AC power fails, the battery back-up will power the Alarm for a short time if the 9V battery is fresh and correctly installed. If AC power fails, and the battery is dead or missing, the Alarm cannot operate. Make sure the alarm is not receiving excessive noisy power. Examples of noisy power could be major appliances on the same circuit, power from a generator or solar power, light dimmer on the same circuit or mounted near fluorescent lighting. Excessive noisy power may cause damage to your Alarm.
- ind the pair of self-adhesive labels included with this CO Alarm. • On each label write in the phone number of your emergency responder (like 911) and a qualified appliance technician.
- Place one label near the CO Alarm, and the other label in the "fresh air" location you plan to go if the alarm sounds NOTE: A qualified appliance technician is defined as "a person, firm, corporation

or company that either in person or through a representative, is engaged in and sonsible for the installation, testing, servicing, or replacement of heating, trillation, air conditioning (HVAC) equipment, combustion appliances and equipment, and/or gas fireplaces or other decorative combustion equipment.

HOW TO INSTALL YOUR CO ALARM

ELECTRICAL SHOCK HAZARD. Turn off power to the area where you

Remove the mounting bracket from the base. Position the screw

Using wire nuts, connect the power connector to the AC power

mproper wiring of the power connector or the wiring leading to the

Tuck the orange wire inside the junction box. It is used for

Strip off about 1/2" of the plastic coating on the orange interconnect

Connect the white wire on the power connector to the neutral wire

Connect the black wire on the power connector to the hot wire (usually

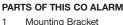
Connect the orange wire on the power connector to the interconnect

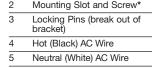
wire in the junction box. Repeat for each unit you are interconnec Never connect the hot or neutral wires in the junction box to the

ctor will cause damage to the Alarm and may lead to a

slots on the mounting bracket over the screws in the junction box.

will install this unit at the circuit breaker or fuse box before beginning nstallation. Failure to turn off the power before installation may result





- Interconnect Wire (Orange)
- Lever to Open Battery Compartment
- Swing-Out Battery
- Compartment Quick-Connect Power
- *Not Included

Alarm initiated an alarm, refer to the table. On Initiating CO Alarm On All Other CO Alarms

IMPORTANT!

to the junction box.

A DANGER!

immediatelv.

IMPORTANT!

replace it immediately.

AWARNING!

IMPORTANT!

CO5120PDBN; and *First Alert*[®] Smoke Alarm Models SA4120B, SA4121B, SA4919B. SA100B Interconnected units must meet ALL of the following requirements: • A maximum of 18 compatible BRK Electronics® Smoke, Heat or CO Alarms may be interconnected. No more than 12 of the 18 can be Smoke Alarms per NFPA 72. • The same fuse or circuit breaker must power all interconnected units.

- Connect the white wire on the power connector to the neutral wire Connect the black wire on the power connector to the hot wire in

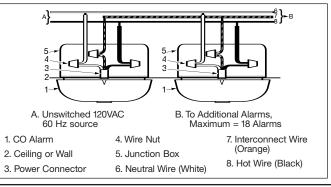
Tools you will need:

notch on the bracket.

ADANGER!

injury or death

AWARNING!



- orange interconnect wire. Plug the power connector into the back of the CO Alarm.
- Position the base of the Alarm over the mounting bracket and turn. The Alarm can be positioned over the bracket every 60°. Turn the unit clockwise (right) until the unit is in place.
- Check all connections

USING THE OPTIONAL LOCKING FEATURES

The optional locking features are designed to prevent unauthorized removal of the battery or alarm. It is not necessary to activate the locks in single-family households where unauthorized battery or alarm removal is not a concern. These CO Alarms have two separate locking features: one locks the battery compartment, and the other locks the CO Alarm to the mounting bracket. You can choose to use either feature independently, or use them both. Tools vou will need: • Needle-nose pliers • Standard Flathead screwdriver Both locking features use locking pins, molded into the mounting bracket. Using needle nose pliers remove one or both pins, depending on which locking features vou use.

THE BATTERY COMPARTMENT LOCK TO LOCK THE BATTERY COMPARTMENT

IMPORTANT! Do not lock the battery compartment until you have

- activated the battery and tested the battery back-up. Activate the battery back-up by removing the "Pull to
- Activate Battery Back-Up" tab. Push and hold the test button on the CO Alarm's cover until you hear an 1 acknowledge chirp and the alarm sounds: 4 beeps, pause, 4 beeps, pause. If the unit does not alarm during testing, DO NOT lock the battery compartment! Install a new battery
- CER and test again. If it still does not alarm, replace the CO Alarm immediately. Using needle-nose pliers, detach one

Once the CO Alarm is installed, you must disconnect it from the AC power

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the CO

m is installed before removing it from the mounting bracket. Failure to

turn off the power first may result in serious electrical shock, injury or death.

Always discharge the branch circuit before servicing an AC or AC/DC CO Alarm. First, turn off the AC power at the circuit breaker or fuse box. Next, remove the battery from Alarms with battery back-up. Finally, press and

Remove the CO Alarm from the mounting bracket. If the unit is locked to

Disconnect the power connector by gently prying it away from the back of

Reconnect the power connector to the back of the CO Alarm, reattach the

hold the test button for 5-10 seconds to discharge the branch circuit.

the bracket, see the section "To Deactivate the Locking Feature.

Insert a flathead screwdriver under the head of the locking pin, and gently pry it out of the battery

To relock the battery compartment, close the bat-

tery door and reinsert the locking pin in the lock.

CO Alarm to the mounting bracket, and restore the power.

When replacing the battery, always test the CO Alarm before relocking the

compartment lock. (If you plan to relock the battery compartment, save the locking pin.)

locking pin from the mounting bracket Push the locking pin through the black dot on the label on the back of the CO Alarm

TO UNLOCK THE BATTERY COMPARTMENT

before unlocking the battery compartment

IMPORTANT!

ADANGER

AWARNING!

the CO Alarm.

IMPORTANT!

battery compartment.

• If you are interconnecting multiple Alarms, repeat Step 1-5 for each Alarm in the series. When you are finished, restore power

ELECTRICAL SHOCK HAZARD. Do not restore power until all Alarms are completely installed. Restoring power before installation is complete may result in serious electrical shock, injury or death.

6. Make sure the CO Alarm is receiving AC power. Under normal operation, the red indicator light will shine continuously. If the red power indicator light does not light, TURN OFF POWER TO THE JUNCTION BOX and recheck all connections. If all connections are correct and the red power indicator still does not light when you restore the power, the unit should be replaced

7. ACTIVATING THE BATTERY BACK-UP

Activate the battery back-up by removing the "Pull to Activate Battery Back-Up" tab. You do not need to open the battery compartment and sition the battery during installation. DO NOT remove the battery activation tab until AC power is turned on to conserve battery power 8. Test the CO Alarm. Press and hold the test button on the cover until the alarm sounds: 4 beeps, pause, 4 beeps, pause. In a series of interconnected Alarms, you must test each Alarm separately by pressing and holding the test button. Make sure all units alarm when each one is tested.

If any unit in the series does not alarm during testing, TURN OFF POWER and recheck connections. If it does not alarm when you restore pow

SPECIAL REQUIREMENTS FOR INTERCONNECTED CO ALARMS

• Failure to meet any of the above requirements could damage the units and cause them to malfunction, removing your protection AC and AC/DC CO Alarms can be interconnected. Under AC power, all units will alarm when one senses CO. When power is interrupted, only the AC/DC units in the series will continue to send and receive signals. AC powered CO Alarms will not operate

Interconnected units can provide earlier warning of a CO problem than standalone units, especially if the problem starts in a remote area of the dwelling. It any unit in the series senses CO, all units will alarm. To determine which CO

> Red LED Flashes Once per Second Red LED Does Not Flash Once per Second

Interconnect units within a single family residence only. Otherwise all households will experience unwanted alarms when you test any unit in the series. Interconnected units will only work if they are wired to compatible units and all requirements are met. This unit is designed to be compatible with: *BRK Electronics*[®] Smoke Alarm Models SC6120B, 4120, 4120B, 4120SB, 4919, 2002RAC, 1005, 5919, 5919TH; *BRK Electronics*[®] Heat Alarm Models HD6135F, HD6135FB; *BRK Electronics*[®] CO Alarm Models SC6120B, CO5120BN,

• The total length of wire interconnecting the units should be less than 1000 feet. The interconnect wire should be Type 18 gauge AWM or larger rated at least 300V. If an interconnect wire is not already part of your household wiring, you will need to install one. This type of wire is commonly available at Hardware and Electrical Supply stores. • All wiring must conform to all local electrical codes and Article 760 of the National Electrical Code. Refer to NFPA, Chapter 2 and/or your local building code for further connection requirements.

